

ABSTRACT OF THE DISCLOSURE

5 A wavelength-tunable laser consists of a resonant semiconductor cavity coupled to a sampled Bragg reflector grating having reflectivity peaks for N optical frequencies. The resonant cavity is formed of two opposite reflector members that are not wavelength selective and delimit an amplifier section coupled to a phase tuning section. The optical length of the cavity is adjustable electro-optically as a function of a control voltage applied to it. The laser can be tuned quickly over a wide band.